

CLAIMS:

1. A system for detachably connecting a first electronic component with a second electronic component (6), whereby a large number of signal lines of the first component are connected with corresponding signal lines of the second component (6), whereby a sheet-like part (2) of the first component is provided with a number of conducting areas (4) arranged in an array at the surface of the sheet-like part (2) near an edge (3) of said sheet-like part (2),
5 whereby each of said conducting areas (4) is connected with a signal line of the first component, and whereby a part of the second component (6) is provided with a number of contact elements (7) arranged in an array at the surface of said part, whereby each of said contact elements (7) is connected with a signal line of the second component (6), whereby
10 each contact element (7) has a contact surface for contacting one of said conducting areas (4) of the first component, and whereby means (10) are present to push each of said conducting areas (4) of the first component against a corresponding contact element (7) of the second component (6).
- 15 2. A system as claimed in claim 1, characterized in that the conducting areas (4) are distributed in a two dimensional pattern on the sheet-like part (2) of the first component, preferably the conducting areas (4) are arranged in two or more parallel arrays.
3. A system as claimed in any one of the preceding claims, characterized in that
20 the first component is provided with more than 200 conducting areas (4), preferably more than 500 conducting areas (4).
4. A system as claimed in any one of the preceding claims, characterized in that
25 said contact surface of the contact element (7) of the second component (6) is at least four times, preferably eight times, and more preferably sixteen times smaller than said conducting area (4) of the first component.

5. A system as claimed in any one of the preceding claims, characterized in that the sheet-like part (2) of the first component and/or the said part of the second component (6) is made of flexible material.
- 5 6. A system as claimed in any one of the preceding claims, characterized by a number of spring members (10), whereby each spring member (10) pushes more than one, preferably more than six contact elements (7) and the corresponding conducting areas (4) against each other, when the first component is connected to the second component (6).
- 10 7. A system as claimed in claim 6, characterized in that the spring members (10) are attached to the second component (6).
8. A system as claimed in claim 6 or 7, characterized in that neighbouring conducting areas (4) in different arrays are pushed by the same spring member (10) against
15 the corresponding contact elements (7).
9. A system as claimed in any one of claims 6-8, characterized in that the conducting areas (4) are located on substantial straight lines perpendicular with respect to the direction of the arrays, whereby a spring member (10) pushes all conducting areas (4) located
20 on two neighbouring lines against the corresponding contact elements (7).
10. A system as claimed in any one of claims 6-9, characterized in that the sheet-like part (2) of the first component, provided with the conducting areas (4) at its surface, is located between said spring members (10) and said contact elements (7) of the second
25 component (6).
11. A system as claimed in any one of the claims 6-10, characterized in that said spring member is a leaf spring (10) having a flat part (16) for abutting against the sheet-like part (2) of the first component over an area of the sheet-like part (2) comprising two or more
30 conducting areas (4), so that the two or more conducting areas (4) are pushed against the corresponding contact elements (7).
12. A system as claimed in claim 11, characterized in that one end of said flat part (16) of the leaf spring (10) is connected to a substantial parallel part (14) of the leaf spring

(10) through a curved part (15) of the leaf spring (10) making a curve of about 180°, whereby the end of said parallel part is attached to a part (11) of the second component (6).

13. A system as claimed in claim 12, characterized in that the other end of said flat part (16) of the leaf spring (10) is connected to the end part (19) of the leaf spring (10) through a curved part (18) of the leaf spring (10) making a curve of about 135° in the other direction, whereby means (20) are present that can push against said end part (19) in order to displace said flat part (16) of the leaf spring (10) away from the contact elements (7).

10 14. A system as claimed in any one of claims 11-13, characterized in that the leaf springs (10) are positioned in a row parallel to each other, whereby successive leaf springs (10) pushes two, or more, successive conducting areas (4) in each array to corresponding contact elements (7), which conducting areas (4) are positioned on two, or more, lines perpendicular to the direction of the arrays.

15 15. A clamping member for a for detachably connecting a first electronic component with a second electronic component (6), whereby a large number of signal lines of the first component are connected with corresponding signal lines of the second component, whereby a sheet-like part (2) of the first component is provided with a number of conducting areas (4) arranged in one or more arrays at the surface of the sheet-like part (2) near an edge (3) of said sheet-like part (2), whereby each of said conducting areas (4) is connected with a signal line of the first component, and whereby a part of the second component (6) is provided with a number of contact elements (7) arranged in one or more arrays at the surface of said part, whereby each of said contact elements (7) is connected with a signal line of the second component, whereby each contact element (7) has a contact surface for contacting one of said conducting areas (4) of the first component, which clamping member (9) comprises a row of leaf springs (10), whereby each leaf spring (10) can push more than one conducting area (4) of the first component against corresponding contact elements (7) of the second component (6).

30 16. A method for detachably connecting a first electronic component with a second electronic component (6), whereby a large number of signal lines of the first component are connected with corresponding signal lines of the second component (6), whereby a sheet-like part (2) of the first component is provided with a number of conducting

areas (4) arranged in one or more arrays at the surface of the sheet-like part (2) near an edge (3) of said sheet-like part (2), whereby each of said conducting areas (4) is connected with a signal line of the first component, and whereby a part of the second component (6) is provided with a number of contact elements (7) arranged in one or more arrays at the surface of said part, whereby each of said contact elements (7) is connected with a signal line of the second component (6), whereby each contact element (7) has a contact surface for contacting one of said conducting areas (4) of the first component, and whereby each of said conducting areas (4) of the first component is pushed against a corresponding contact element (7) of the second component (6).